

IN THE CLAIMS:

Please amend the claims as follows:

1-2. (cancelled)

3. (previously presented) A saw blade, comprising:

an unset tooth;

a left set tooth;

a right set tooth;

wherein the left set tooth and the right set tooth are set to a right-and-left direction;

wherein when a thickness of a body section of the saw blade is D , and a set width is T , and where α is a setting coefficient, a relationship that $T = D + 2\alpha$ is established;

wherein a relationship between the thickness D of the body section and the coefficient α is established in a manner such that

when $0.85 \text{ mm} \leq D \leq 0.95 \text{ mm}$, $0.15 \text{ mm} \leq \alpha \leq 0.35 \text{ mm}$ is established;

when $0.96 \text{ mm} < D \leq 1.2 \text{ mm}$, $0.2 \text{ mm} \leq \alpha \leq 0.4 \text{ mm}$ is established;

when $1.2 \text{ mm} < D \leq 1.5 \text{ mm}$, $0.25 \text{ mm} \leq \alpha \leq 0.43 \text{ mm}$ is established;

when $1.5 \text{ mm} < D \leq 1.7 \text{ mm}$, $0.3 \text{ mm} \leq \alpha \leq 0.5 \text{ mm}$ is established; or

when $1.7 \text{ mm} < D$, $0.35 \text{ mm} \leq \alpha \leq 0.6 \text{ mm}$ is established;

wherein a small-diameter curl forming section for small curling chips generated at the time of cutting a workpiece is provided at a tip portion of saw teeth;

wherein the small-diameter curl forming section has a plane rake face, which extends by a predetermined length from the point of the saw tooth to a direction of a gullet bottom section of the saw blade, and a curved face which is continuous to the rake face;

wherein in the case where a vertical line is drawn from a cross position between the curved face and a gullet forming curved face forming the gullet section towards a direction of the cutting by means of the saw teeth, when a dimension from the vertical line to the point of the saw tooth is A and when a radius of the curved face is R, a relationship that $R/1.5 < A \leq 2R$ is established; and

wherein the cross position between the curved face and the gullet forming curved face is protruded from the curved face and the gullet forming curved face.

4. (previously presented) The saw blade according to Claim 3, wherein pitches of the saw teeth are unequal with each other.

5. (cancelled)

6. (new) The band saw blade according to Claim 3 having a sine curve shape.